Quiz 20: 4/1/15

A system has 8 virtual pages and **4** page frames. The pages are accessed in the following order.

1	2	4	2	3	1	5	2	6	8	3	5	4	1	2	6

Draw a table showing what each of the **4** page frames should have in it and when the page faults occure for

- First In First Out (FIFO)
- Clock Algorithm
- Least Recently Used (LRU)

ANSWERS

First In First Out (FIFO)

Page	1	2	4	2	3	1	5	2	6	8	3	5	4	1	2	6
0	**1**	1	1	1	1	1	**5**	5	5	5	5	5	5	**1**	1	1
1	-	**2**	2	2	2	2	2	2	**6**	6	6	6	6	6	**2**	2
2	-	-	**4**	4	4	4	4	4	4	**8**	8	8	8	8	8	**6**
3	-	-	-	-	**3**	3	3	3	3	3	3	3	**4**	4	4	4
Faults	F	F	F	-	F	-	F	-	F	F	-	-	F	F	F	F

Clock Algorithm

Page	1	2	4	2	3	1	5	2	6	8	3	5	4	1	2	6
0	**1**	1	1	1	1	1	1	1	**6**	6	6	**5**	5	5	5	**6**
1	-	**2**	2	2	2	2	2	2	2	2	2	2	**4**	4	4	4
2	-	-	**4**	4	4	4	**5**	5	5	**8**	8	8	8	**1**	1	1
3	-	-	-	-	**3**	3	3	3	3	3	3	3	3	3	**2**	2
Faults	F	F	F	-	F	-	F	-	F	F	-	F	F	F	F	F

Least Recently Used (LRU)

Page	1	2	4	2	3	1	5	2	6	8	3	5	4	1	2	6
0	**1**	1	1	1	1	1	1	1	1	**8**	8	8	8	**1**	1	1
1	-	**2**	2	2	2	2	2	2	2	2	2	**5**	5	5	5	**6**
2	-	-	**4**	4	4	4	**5**	5	5	5	**3**	3	3	3	**2**	2
3	-	-	-	-	**3**	3	3	3	**6**	6	6	6	**4**	4	4	4
Faults	F	F	F	-	F	-	F	-	F	F	F	F	F	F	F	F